## BF09T4A400



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 25A, AC COIL 50/60HZ, 400VAC



Product designation		Power contactor
Product type designation		BF09
Contact characteristics		
Number of poles	nr.	3
Rated insulation voltage Ui	V	690
Rated impulse withstand voltage Uimp	kV	6
Operating frequency		
Operational frequency min	Hz	25
Operational frequency max	Hz	400
Conventional free air thermal current Ith	А	25
Operating current		
Operational current AC3 (≤440V ≤55°C)	А	9
Operational current AC4 (400V)	А	4.9
Short-time allowable current for 10s (IEC/EN60947-1)	А	150
Protection fuse		
gG (IEC)	А	25
aM (IEC)	A	10
Making capacity (RMS value)	A	90
Breaking capacity at voltage	7.	
Breaking capacity 440V	А	72
Breaking capacity 500V	A	72
Breaking capacity 690V	A	71
Resistance per pole (average value)	mΩ	2.5
Power dissipation per pole (average value)		2.0
Power dissipation pole (average value)	W	1.6
AC3	Ŵ	0.2
Tightening torque for terminals	••	0.2
min	Nm	1.5
max	Nm	1.8
min	lbft	1.1
max	Ibft	1.5
Tightening torque for coil terminal	IDIT	1.5
min	Nm	0.8
	Nm	1
max min	lbft	0.59
	lbft	0.59
max number of wires simultaneously connectable		
max number of wires simultaneously connectable	nr.	2
Conductor section		
AWG		16
min		16
max		10
Flexible w/o lug conductor section		4
min	mm²	1
Max Elevible c/w lug conductor section	mm²	6

Flexible c/w lug conductor section

BF09T4A400



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 25A, AC COIL 50/60HZ, 400VAC

				4
		min	mm²	1
	Elevible with inculated anode lug conductor costion	max	mm²	4
	Flexible with insulated spade lug conductor section	min	mm²	1
		min max	mm²	1 4
Power terminal protect	tion according to IEC/EN 60529	Παλ	11111	IP20
Auxiliary contact chara				11 20
Type of contact				1 NA
Thermal current Ith			Α	25
IEC/EN 60947-5-1 des	signation		~~~	A600
Ambient conditions	Signation -			10000
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3,000
Operating position				
		normal		Vertical plan
		allowable		±30°
Mounting				Screw / DIN rail 35mm
Weight			g	0.367
Operations			Ű	
Mechanical life			Cycles	20,000,000
Electrical life			Cycles	2000000
Safety related data				
Performance level B10	Od according to EN/ISO 13489-1 -			
	Performance level B10d accord			
	Performance level B10d accord	ding to EN/IS	SOC164489	
	ng to IEC/EN 609474-4-1			Yes
EMC compatibility				Yes
AC coil operating				
Rated AC voltage at 50	0/60Hz, 60Hz			
		min	V	12
		max	V	600
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up	_		
		min	%Us	80
			0/11	
		max	%Us	110
	drop-out			
	drop-out	min	%Us	20
	-			
	of 50/60Hz coil powered at 60Hz	min	%Us	20
	-	min max	%Us %Us	20 55
	of 50/60Hz coil powered at 60Hz	min max min	%Us %Us %Us	20 55 85
	of 50/60Hz coil powered at 60Hz pick-up	min max	%Us %Us	20 55
	of 50/60Hz coil powered at 60Hz	min max min max	%Us %Us %Us %Us	20 55 85 110
	of 50/60Hz coil powered at 60Hz pick-up	min max min max min	%Us %Us %Us %Us %Us	20 55 85 110 20
	of 50/60Hz coil powered at 60Hz pick-up	min max min max	%Us %Us %Us %Us	20 55 85 110

BF09T4A400



	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
		Пах	/003	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC operating voltage				
, to operating reliage	of 50/60Hz coil powered at 50Hz			
	of 50/00Hz coll powered at 50Hz	1 I		75
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz			
	·	in-rush	VA	70
		holding	VA	6.5
		Totaling	٧٨	0.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding	≤20°C 50Hz	5	W	2.5
Max cycles frequency			••	
			0 1 "	0.000
Mechanical operations	S		Cycles/h	3,600
Operating times				
Average time for Us c	ontrol			
5	in AC			
	Closing NO			•
		min	ms	8
		max	ms	24
	Opening NO			
	1 0	min	ms	10
		max	ms	20
		Пах	1115	20
	Closing NC			
		min	ms	14
		max	ms	28
	Opening NC			
	-1- 5 -	min	ms	7
		max	ms	18
UL technical data				
Full-load current (FLA	) for three-phase AC motor			
		at 480V	А	7.6
		at 600V	A	9
Violded mechanical p	orformonoo		73	<u> </u>
Yielded mechanical pe				
	for single-phase AC motor			
		at 110/120V	hp	0.75
		at 230V	hp	2
	for three-phase AC motor		ľ	
		at 200/208V	hn	3
			hp	3
		at 220/230V	hp	3
		at 460/480V	hp	5
		at 575/600V	hp	7.5
Contact rating of auxili	iary contacts according to UL			SI - A600
				01 /1000
General USE				
	Contactor			
		AC current	А	25
	Auxiliary contacts			
	Auxiliary contacts	AC voltage	V	600

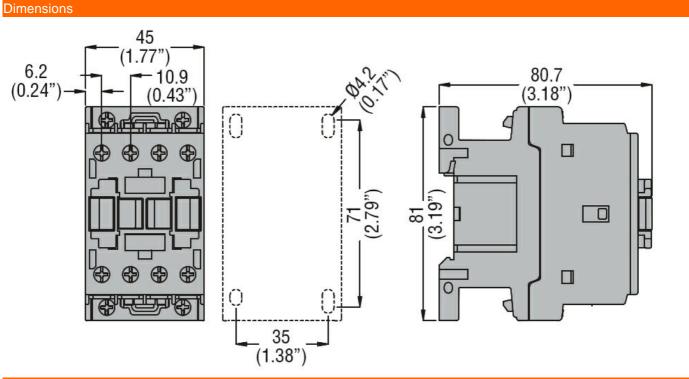
BF09T4A400



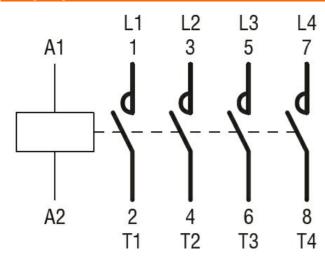
FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 25A, AC COIL 50/60HZ, 400VAC

AC current	А	10	
DC voltage	V	250	
DC current	А	1	

**BF09T4A400** 



Wiring diagrams



## Certifications and compliance

Certifications	
	CSA C22.2 n° 60947-1
	CSA C22.2 n° 60947-4-1
	IEC/EN 60947-1
	IEC/EN 60947-4-1
	UL 60947-1
	UL 60947-4-1
Compliance	
	CCC
	cULus
	EAC
ETIM 6 classificat	ion
	restaristics described in this desumant are subject to undetee or medifications at any time. The descriptions, technical and

BF09T4A400

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



**BF09T4A400** FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 25A, AC COIL 50/60HZ, 400VAC

EC000066 - Power contactor, AC switching